



# SS22 THRU SS26

**2.0 AMP. SURFACE MOUNT  
SCHOTTKY BARRIER  
RECTIFIERS**

**Voltage Range  
20 to 60 Volts  
Current  
2.0 Amperes**

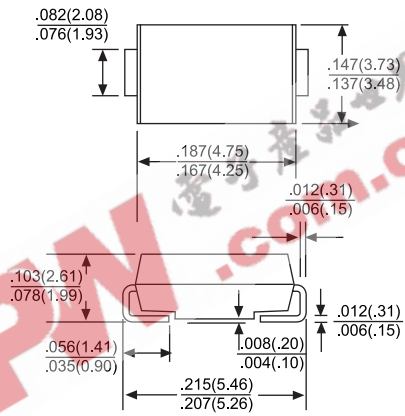
**Features**

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-O
- Epitaxial construction
- High temperature soldering:  
250°C/ 10 seconds at terminals

**Mechanical Data**

- Case: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 12mm tape per EIA STD RS-481
- Weight: 0.093 gram

**SMB/DO-214AA**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number		SS22	SS23	SS24	SS25	SS26	UNITS
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T <sub>L</sub> (See Fig.1)	I <sub>F(AV)</sub>	2.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50					A
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	V <sub>F</sub>	0.5			0.70		V
Maximum DC Reverse Current @ T <sub>A</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>A</sub> = 100°C	I <sub>R</sub>	0.5					mA mA
		20			10.0		
Typical Thermal Resistance (Note 2)	R <sub>θ J-L</sub> R <sub>θ J-A</sub>	17					°C/W °C/W
		75					
Operating Temperature Range	T <sub>J</sub>	-55 to+125					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to+150					°C

NOTES: 1. Pulse Test with PW=300 usec, 1% Duty Cycle  
2. Measured on P.C. Board with 0.2 x 0.2"(5.0 x5.0mm) Copper Pad Areas.

# RATING AND CHARACTERISTIC CURVES SS22 THRU SS26



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

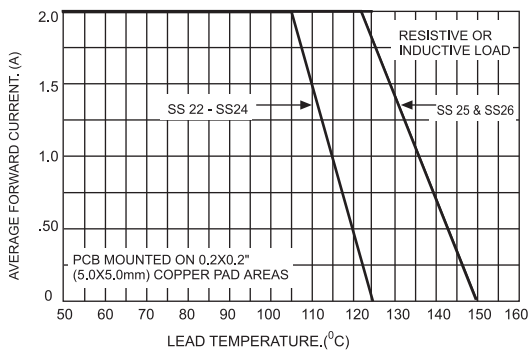


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

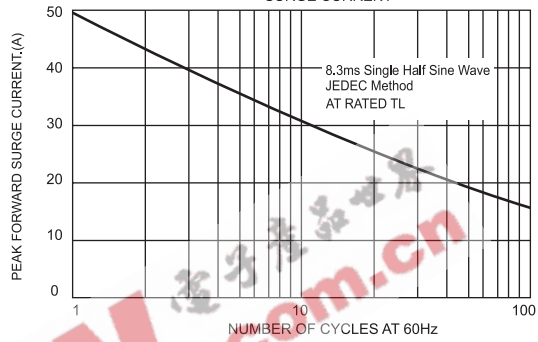


FIG.3-TYPICAL FORWARD CHARACTERISTICS

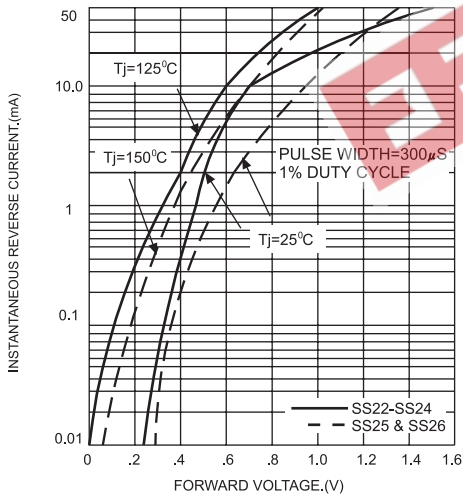


FIG.4-TYPICAL REVERSE CHARACTERISTICS

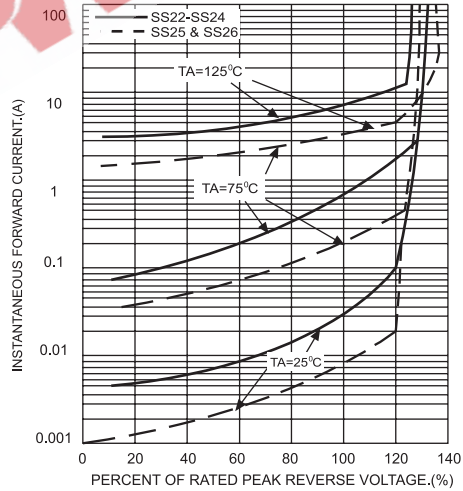


FIG.5-TYPICAL JUNCTION CAPACITANCE

